Notice of Allowability	Application No. Applicant(s)		
	00/740 103	TANC HARRY	
	09/749,193 Examiner	TANG, HARRY Art Unit	
	A - 0		
	Anthony T Ton	2661	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate common RIGHTS. This application is so	n this application. If not included unication will be mailed in due course. T	
1. $oxed{oxed}$ This communication is responsive to <u>Amendment filed or</u>	<u>6/24/2004</u> .		
2. 🔀 The allowed claim(s) is/are <u>10,13,14,18-20 and 22-27; no</u>	ow the claims have been renu	mbered and become 1-12, respectively	•
3. $igotimes$ The drawings filed on <u>6/24/04</u> are accepted by the Exami	ner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		or (f).	
2. Certified copies of the priority documents have		on No	
3. Copies of the certified copies of the priority d	ocuments have been receive	d in this national stage application from	the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirement	ts
5. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi)F
 CORRECTED DRAWINGS (as "replacement sheets") metalong including changes required by the Notice of Draftspe 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR) 	rson's Patent Drawing Review r's Amendment / Comment o	r in the Office action of	
each sheet. Replacement sheet(s) should be labeled as such in			
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	formal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB		/Mail Date Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. ☐ Other		
PHIRIN SAM PRIMARY EXAMINER	`~	_	

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become 1-12, respectively.

DETAILED ACTION

The following is an examiner's statement of reasons for claim re-numbering:
 Based on the Amendment filed on 6/24/2004, the Applicants canceled claims 1-9, 11,

 12, 15-17 and 21; therefore, claims 10, 13, 14, 18-20 and 22-27 have been renumbered and

Allowable Subject Matter

- 2. The following is an examiner's statement of reasons for allowance:
- a) Claim 1 (after renumbering) is allowed because the prior art fails to teach a combination, other claim limitations, a system to optimize resource planning for asynchronous digital subscriber line (ADSL) services comprising:

managing deterministic resource configuration variables that are used to create permanent virtual circuits (PVCs) on the ADSL;

a network management system (NMS) uses the deterministic configuration variables to reanimate hung PVCs; and

the NMS cooperates with an element management system (EMS) to communicate information indicative of the hung PVCs to ADSL network components such that the ADSL network components can reanimate the hung PVCs, the NMS calculating the deterministic variables using the computing application to ascertain the connection positions of the PVC on the ADSL network components.

b) Claims 2 and 3 (after renumbering) are allowed because the prior art fails to teach a combination, other claim limitations, a method to optimize resource of ADSL network providing ADSL services comprising:

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storing deterministic configuration variables used in the provisioning of resources on an ADSL network by providing a computing application to operate on a network management system, the computing application:

creating, managing, and communication deterministic configuration variables to cooperating ADSL network components for the provisioning of resources; and

calculating a virtual circuit identifier (VCI) value, the VCI value being calculated using a plurality of ADSL component configuration data comprising any of connection position information, port information, and sequence position information.

c) Claims 4 and 5 (after renumbering) are allowed because the prior art fails to teach a combination, other claim limitations, a method to provision resources on the ADSL network comprising the steps of:

calculating deterministic configuration variables by a network management system (NMS), by determining at least one remote access multiplexer (RAM) and at least one central office digital subscriber line access multiplexer (CO DSLAM) configuration values for inclusion in providing the deterministic configuration variables; and

communicating the calculated deterministic configuration variables to the ADSL network by the NMS using the EMS, the EMS being communicatively coupled to the RAM and CO DSLAM.

d) Claim 6 (after renumbering) is allowed because the prior art fails to teach a combination, other claim limitations, a method to provision resources on the ADSL network comprising the steps of:

calculating deterministic configuration variables by a network management system (NMS), by determining the capacity of at least one remote access multiplexer (RAM) and at least one central office digital subscriber line access multiplexer (CO DSLAM) to ascertain the range of values for the deterministic configuration values for communication by the NMS, and choosing a formula associated with the determined capacity for use in calculating the deterministic configuration values; and

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communicating the calculated deterministic configuration variables to the ADSL network by the NMS using the EMS, the EMS being communicatively coupled to the RAM and CO DSLAM.

e) Claims 7-12 (after renumbering) are allowed because the prior art fails to teach a combination, other claim limitations, a method of assigning virtual circuit identifier (VCI) values to a subscriber comprising the steps of:

assigning a sequence number, n, to a remote access multiplexer (RAM), the sequence number being based on a digital subscriber line access multiplexer input port position to which the RAM is connected;

assigning a position number, Mpos, to the RAM, the position number being in a range beginning with the number zero, the position number being based on a RAM input port to which a subscriber is connected;

determining the number of ports, P, on the RAM;

computing the value of (P * (n-1)) + Mpos; and

assigning a VCI value for the subscriber based on the computed value.

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Examiner Information

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Anthony T Ton** whose telephone number is **571-272-3076**. The examiner can normally be reached on M-F: 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Ken Vanderpuye** can be reached on **571-272-3078**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-3076**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ATT

9/30/04

PHIRIN SAM PRIMARY EXAMINER